

In the Specification

Please amend paragraph [0019] as follows:

[0019] The terminal ~~adapter~~ adaptor 16 interfaces with a telephone line connected to the wireline switch 14, and facilitates wireless communications with the mobile terminal 12. For an incoming or outgoing call via the telephone line, the terminal adaptor 16 will provide a circuit-switched interface to the telephone line and a wireless interface to the mobile terminal 12, wherein the mobile terminal 12 may operate similarly to a traditional cordless telephone.

Please amend paragraph [0020] as follows:

[0020] The wireless interface provided by the terminal adaptor 16 will have a limited range, and as such, will provide a terminal ~~adapter~~ adaptor zone 24, which defines an area or range in which communications between the terminal adaptor 16 and the mobile terminal 12 are possible. The terminal adaptor 16, through any of a variety of possible techniques, will determine whether the mobile terminal 12 is within the terminal ~~adapter~~ adaptor zone 24, and provide information bearing on the presence of the mobile terminal 12 through a data access network 26 and data network 28 to a service node 30, directly or via customer premise equipment (not shown). The customer premise equipment may be a cable modem, Digital Subscriber Line (DSL) modem, Integrated Services Digital Network (ISDN) modem, or like communication terminal that provides access to the data access network 26 via the corresponding cable network, Digital Subscriber Line (DSL) network, or ISDN forming the data access network 26.

Please amend paragraph [0023] as follows:

[0023] Incoming calls using the PSTN directory number DN1 are routed to the wireline switch 14, which is provisioned to access the service node 30 to determine how to further route the call for termination. The service node 30 will receive a message from the wireline switch 14 identifying the directory number associated with the called party for the incoming call. From the directory number, the service node 30 will recognize that the directory number DN1 is associated with the mobile terminal 12. As such, the service node 30 will determine whether the mobile terminal 12 is within the terminal ~~adapter~~ adaptor zone 24 of the terminal adaptor 16 based on a query to the terminal adaptor 16 or information provided by the terminal adaptor 16 on a periodic

basis. If the mobile terminal 12 is within the terminal ~~adapter~~ adaptor zone 24, the service node 30 will send a message to the wireline switch 14 directing the wireline switch 14 to route the incoming call to the mobile terminal 12 via the terminal adaptor 16 using the PSTN directory number DN1. If the mobile terminal 12 is not within the terminal ~~adapter~~ adaptor zone 24, the service node 30 will instruct the wireline switch 14 to route the call to the mobile terminal 12 through the cellular access network 20 using a temporary directory number. The temporary directory number is retrieved from the wireless switch 18 or an associated visiting location register (VLR) 32 via a signaling network 36, directly or indirectly via a home location register (HLR) 34 associated with the wireline switch 14.

Please amend paragraph [0024] as follows:

[0024] The VLR 32 generally operates in traditional fashion, and may be specially configured to provide or access the temporary directory number from the wireless switch 18 currently servicing the mobile terminal 12. The HLR 34, although associated with the wireline switch 14, operates in an analogous fashion to a wireless-based HLR 34. In operation, the HLR 34 and VLR 32 cooperate to provide the temporary directory number to the service node 30. The service node 30 will provide the temporary directory number to the wireline switch 14, such that the incoming call can be directed to the wireless switch 18, if the mobile terminal 12 is not within the terminal adaptor zone 24 or as directed by the user. For additional information related to routing incoming calls via the terminal ~~adapter~~ adaptor 16 or the wireless network 18, please see U.S. application serial number 10/409,280 filed April 8, 2003, U.S. application serial number 10/409,290 filed April 8, 2003, U.S. application serial number 10/410,949 filed April 10, 2003, and U.S. application serial number 10/411,159 filed April 10, 2003, the disclosures of which are incorporated herein by reference in their entireties.

Please amend paragraph [0025] as follows:

[0025] The terminal adaptor 16 may support multiple mobile terminals 12, which are capable of establishing telephony communications via the wireless switch 18 or via the wireline switch 14 through the terminal adaptor 16. Accordingly, the terminal adaptor 16 may be able to keep track of the multiple mobile terminals 12 to determine whether they are present within the terminal ~~adapter~~ adaptor zone 24 and report such information to the service node 30 periodically or when

attempting to terminate an incoming call. Since the terminal adaptor 16 can communicate via the data access network 26 in addition to communicating over the telephone line, voice over packet communications are possible between the wireline switch 14 and the terminal adaptor 16.

Please amend paragraph [0026] as follows:

[0026] Regardless of the originating party to a call, when the user engaged in the call takes the mobile terminal 12 outside of the terminal adapter ~~adaptor~~ zone 24, the ability of the terminal adaptor 16 to effectively communicate with the mobile terminal 12 will diminish, and ultimately stop. Accordingly, the terminal adaptor 16 (or the mobile terminal 12) will directly or indirectly monitor metrics indicative of its ability to maintain communications with the mobile terminal 12. The metrics that the terminal adaptor 16 (or the mobile terminal 12) may monitor could include actual bit error rates, signal strengths, signal-to-interference ratios, or any other indication bearing on the ability to provide a minimum level of quality. Once the metric measurement has dropped below a minimum threshold, which is indicative of the mobile terminal 12 leaving the terminal adapter ~~adaptor~~ zone 24, the terminal adaptor 16 will signal the wireline switch 14 to initiate a call to the mobile terminal 12 using a temporary directory number (TDN), transfer the call to the new connection established via the wireless switch 18, and drop the connection via the terminal adaptor 16.

Please amend paragraph [0042] as follows:

[0042] Clearly, the mobile terminal 12 must be equipped with a compatible interface and be configured to cooperate with the terminal adaptor 16 to facilitate normal telephone operation. As such, the terminal adaptor 16 and the mobile terminal 12 must cooperate such that the mobile terminal 12 knows when to ring, the terminal adaptor 16 knows when the mobile terminal 12 has been answered or ends a call, and the mobile terminal 12 receives any caller identification or like messaging intended for the user or necessary by the mobile terminal 12 for operation. Further, the local wireless interface 40, alone or in conjunction with the control system 38, must be able to periodically or continuously detect whether the mobile terminal 12 is within communication range, and thus within the terminal adapter ~~adaptor~~ zone 24. Those skilled in the art will recognize numerous techniques for the mobile terminal 12 and terminal adaptor 16 to cooperate with one another to determine whether or not communications are possible.